FILE THE SECON

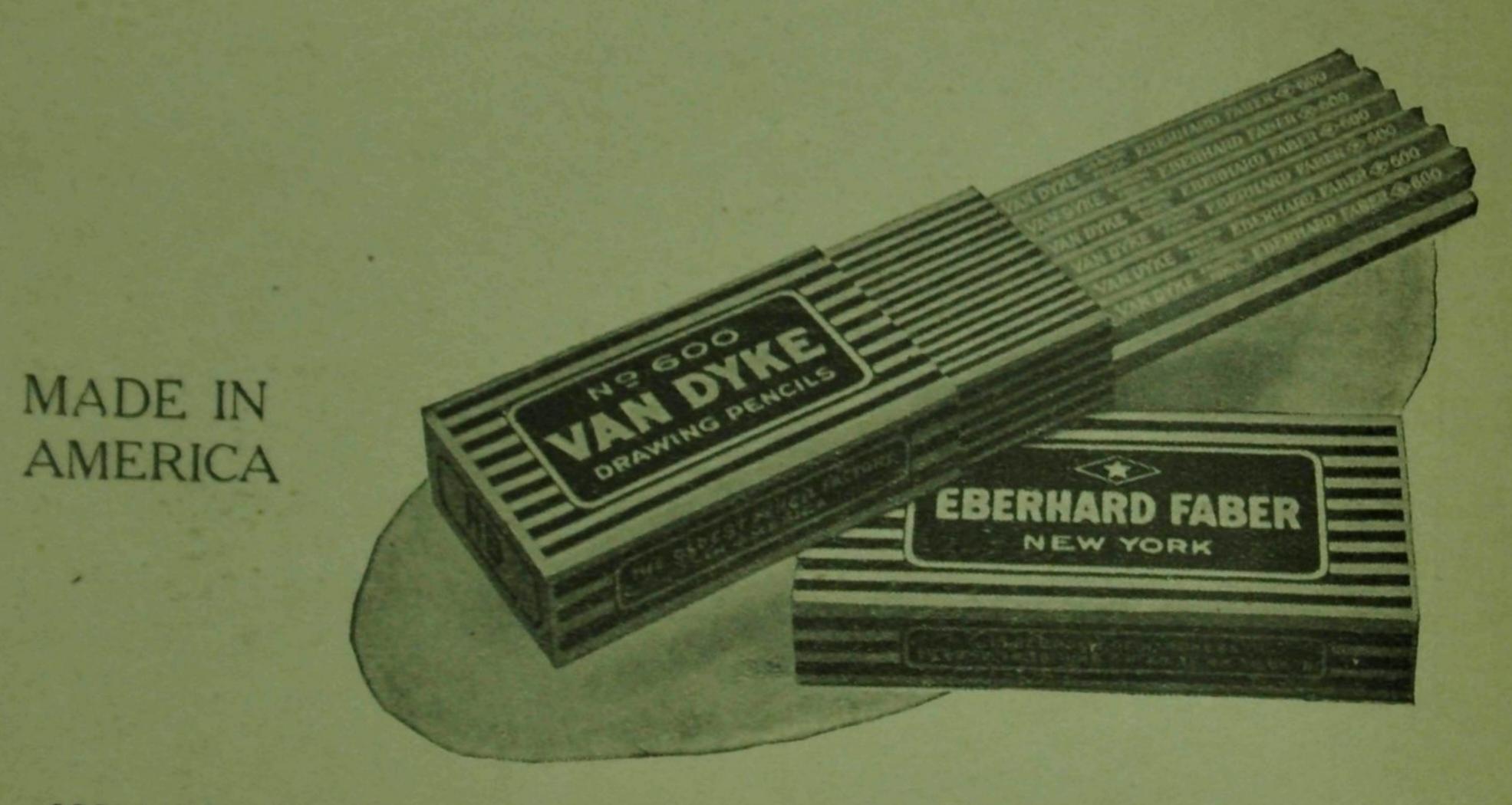


OLD ARMORY ".E.E.LABORATORY

UNIVERSITY OF ILLINOIS URBANA - CHAMPAIGN

ADMISSION 254

MADE IN



No. 600 VAN DYKE. Hexagon, Yellow Polish. One Dozen in a Box. 1/2 Gross in a Carton

The Van Dyke Drawing Pencil, designed to meet the exacting require ments of the professional and technical user, may be absolutely depended upon for quality and accuracy of degree of the lead. It is the result of extended laboratory experiments and exhaustive tests directed by the experience of more than fifty years of pencil manufacturing, and supplemented by excessive care in all of the various operations.

The marked characteristics of the Van Dyke lead are durability, smoothness and homogeneity.

It is made in fifteen degrees of hardness:

6B (softest), 5B, 4B, 3B, 2B, B, HB (medium soft), F, H, 2H, 3H, 4H, 5H, 6H and 7H (hardest).

For Freehand Drawing, the soft degrees, 6B to B, with their possibilities of deep, rich tones, are suitable.

The Drafting Room is served by the harder degrees from 2H to 7H.

For general use HB (medium soft), F (medium) and H (medium hard), will afford perfect satisfaction.

The Van Dyke is the best we produce—an assurance of a quality meriting your complete confidence.

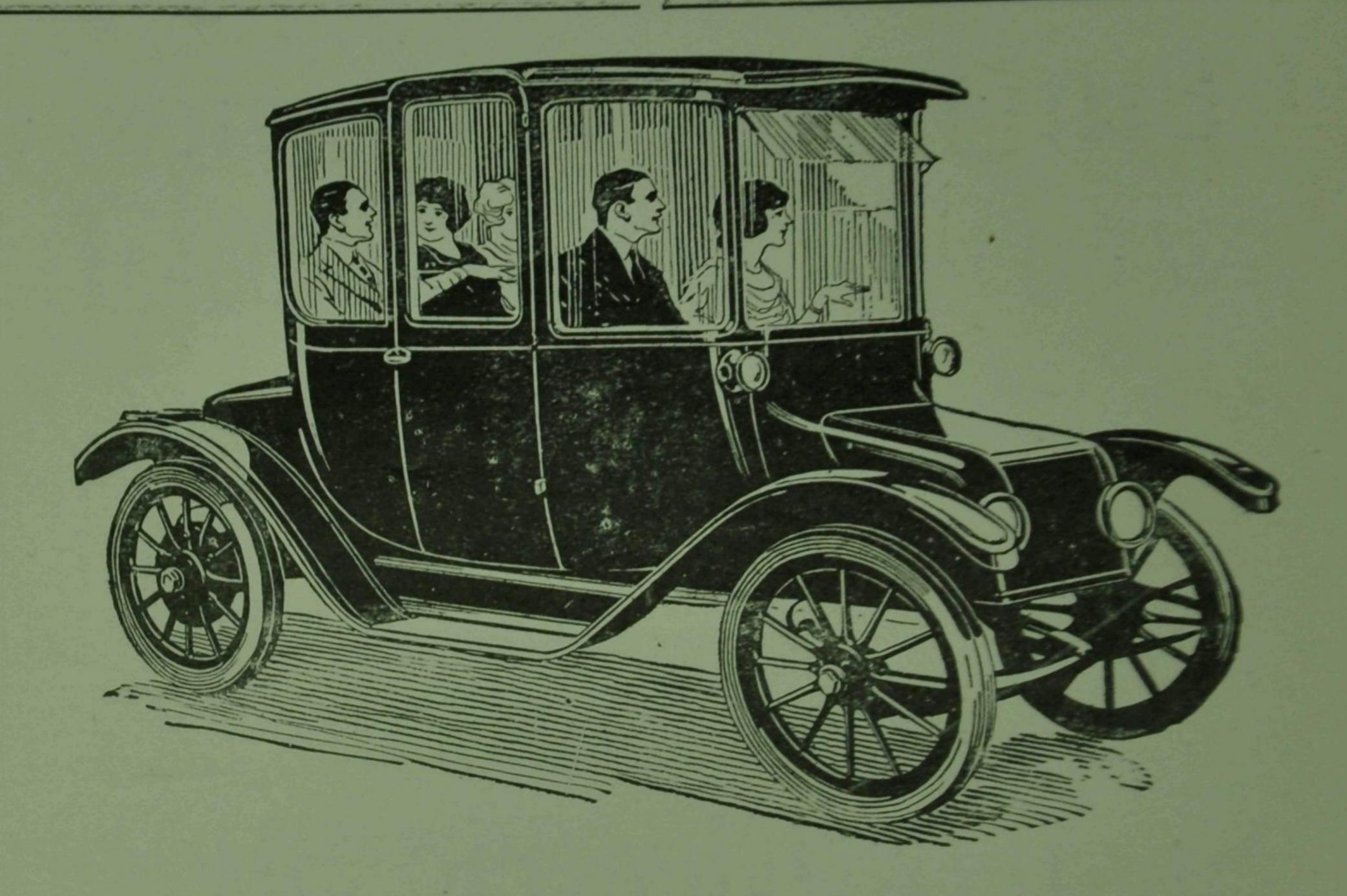
EXHIBIT NO. 4

Just inside the Door of the Armory The 1915 Electrical Show

University of Illinois.

Get Them from the Co-op Store

EBERHARD FABER, NEW YORK



The Woods Electric Is the Most Popular

The Woods is the most popular electric wherever electrics are best known and most used. You can always be proud that your electric is a Woods. No other car in the world is so convenient, so satisfactory for every occasion.

In all weathers, winter or summer, rain or shine, the Woods is always instantly at your service and always thoroughly dependable.

The upkeep of a Woods Electric is surprisingly small when compared with any other type of vehicle of particular class.

You owe yourself and family the enjoyment and convenience of a Woods Electric now. It will pay back dividends in health and happiness. The 1915 models are beauties.

Remember we are always glad to arrange demonstrations whether you intend to buy now or later. Catalog fully illustrated mailed on request.

C. B. Wiggins

Distributor for Champaign and Urbana

But When It Comes to Buying

electrical appliances, the firm that has proven itself to be the best in Champaign County is the Swartz Electric Shop in Urbana.

It has built up its reputation not only on handling big contracts, but on its retail trade

Get acquainted with the

Swartz Electric Shop S. RACE STREET

URBANA

To those contemplating the Purchase of Good Photographs

We Tender Our Services

The Photo Art Shop

CO-OP BUILDING, SECOND FLOOR

Come in and see our fine facilities for doing the best work and look at what we've done for others. We'll convince you of our ability to give YOU satisfaction.

FIFTH ELECTRICAL SHOW

University of Illinois

APRIL 8, 9 and 10, 1915

Old Armory and E. E. Laboratory

Under Management of Electrical Engineering Society

FACULTY OF THE ELECTRICAL ENGINEERING DEPARTMENT

E. B. Paine

Morgan Brooks	P. S. Beigler
E. H. Waldo	A. R. Knigh
L. V. James	C. R. Moore
I. W. Fisk	J. W. Davis

BOARD OF MANAGERS

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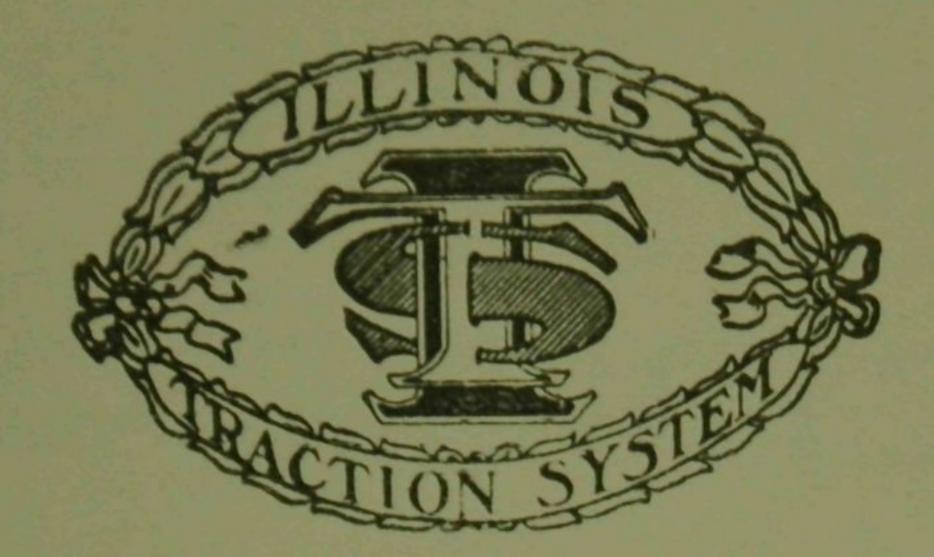
Ernest R. Reid Leslie W. Faulkner John L. Simonich

Decorators

Emery V. Potter

Earle E. Warner

Abel R. Summers



McKinley Lines



The Acme of Electric Transportation

Daily and Hourly trains
between
Urbana and Champaign
and
Danville, Decatur, Springfield and St. Louis.

Special cars for particular service.

JOHN A. GLOVER General Agent Lines East of Decatur.

The Urbana Light, Heat & Power Company

Furnishes the electric lighting and power service for Urbana.

Any of the household appliances on exhibition at the ELECTRIC SHOW may be purchased at the office, No. 120 East Main Street.

JOHN A. GLOVER General Superintendent

ANNOUNCEMENT

The Electrical Show Management has arranged all the exhibits so that no visitor will receive the slightest electrical shock.

PROGRAM

OLD ARMORY

1. Electric Fountain

R. W. Parker

C. Anderson

R. A. Burtnett

J. Kantor

SECTION A

2. Caldwell Electric Co.
Lighting Fixtures, Heating and Cooking Appliances

Champaign

3. Walker and Mulliken Vacuum Cleaners

A. N. Lendman

SECTION B

Eberhard Faber
Special Drafting Specialities

Representative

Forty-two inch ironing machine

Representative

6. U. & C. Ry., Gas and Electric Co. Water Pressure Systems

. Meadows Manufacturing Co.

Electric Washing Machines

Representative



The

CROWNING STROKE

In Typewriter Construction

THE ROYAL TYPEWRITER No. 10

1000 less parts. Lightest touch.

Most beautiful writing. Most durable.

I Sell Also

THE CORONA, the perfect 6-pound typewriter. Indispensible for the home, for traveling and in the professional man's office.

SAM'L ABRAMS, Typewriters

612 E. Green St., Champaign.

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C. LEWIS, Mgr.

AUTO PHONE 1192

GAS AND ELECTRIC SUPPLIES

Lewis Electric Supply Company

510 E. GREEN ST.

:: CHAMPAIGN, ILL.

Engineers and Contractors. Specialists in electric illumination and power. Installers of private lighting plants where electricity is not available. Farm line telephones, etc.

SECTION C

8. MINIATURE ELECTRIC RAILWAY

A complete electrical railway protected by an electric block signal system. See the miniature power plant.

F. E. Troxel, R. E. Wiley, R. V. Waller, W. G. Tuell, G. Clark, D. W. Cooper, E. F. Bollinger, R. Hynmann, H. L. Husson, A. K. Wuerker. E. J. Troxel, L. H. Hutchinson

SECTION D

9. Westinghouse Electric & Manf. Co.

Representative

10. Ideal Electric Co.

Representative

11. Hurley Machine Co.

Representative

12. Nungesser Carbon Co.
Brushes, Carbons

J. E. Walsh

13. Century Electric Co.
Single Phase Motors

Representative

SECTION E

14. Petschel Storage Battery Co. Storage Batteries

J. N. Cost, G. C. Wilson

15. National Lamp Works
Illuminating Display

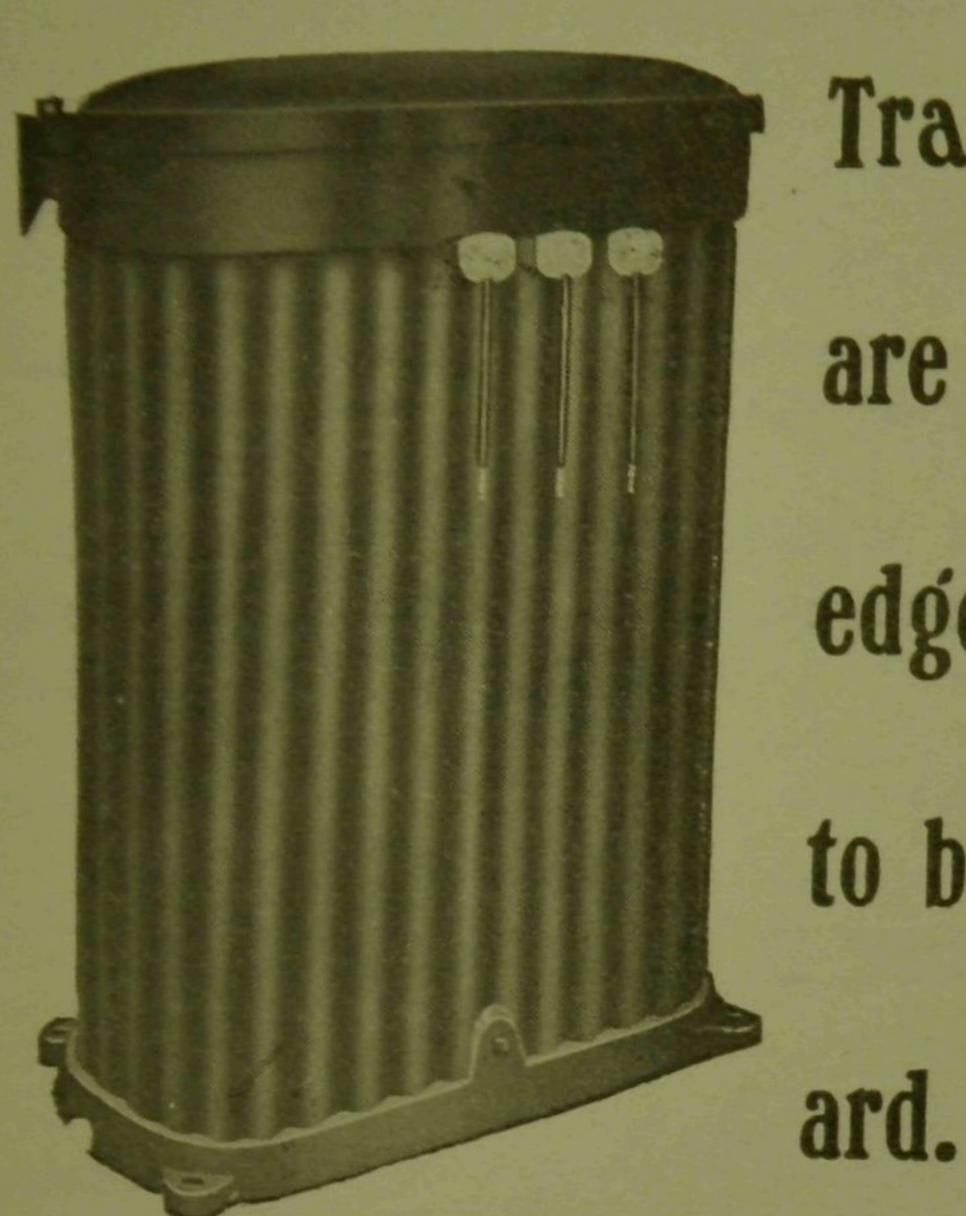
L. C. Kent, G. F. Cadisch

6. National Carbon Co.

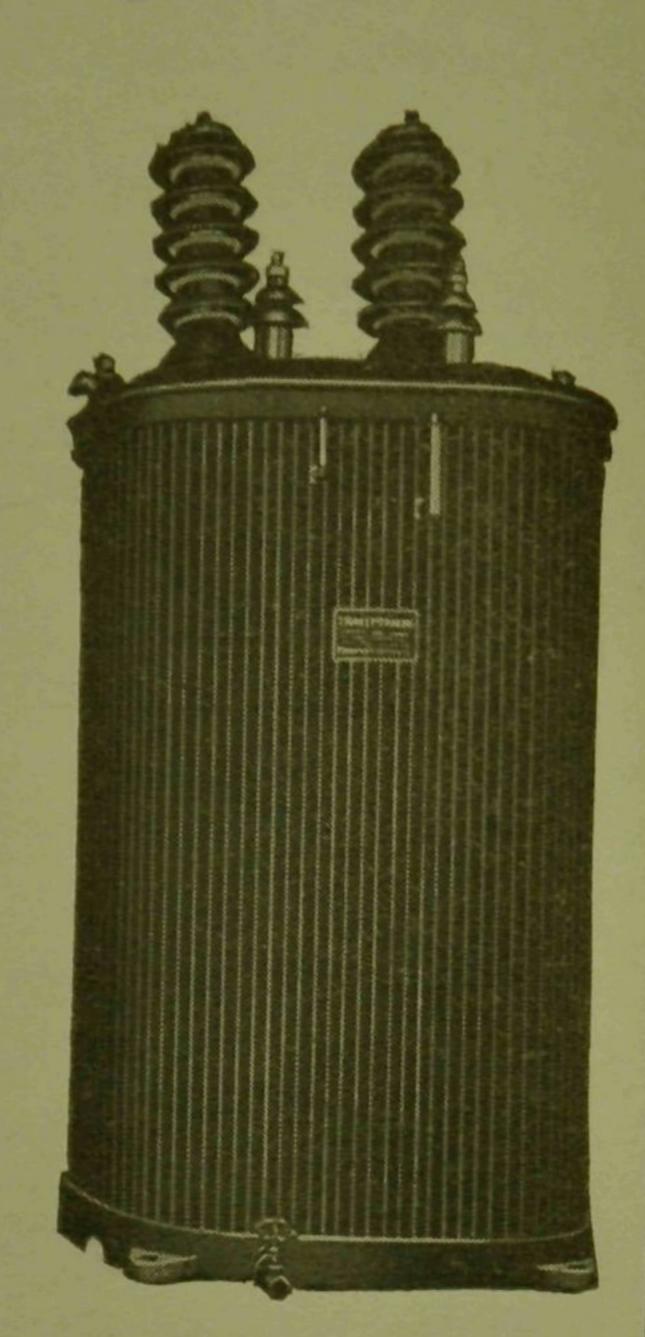
Evolution of the Arc Lamp and Carbon Products

J. C. Kuhns

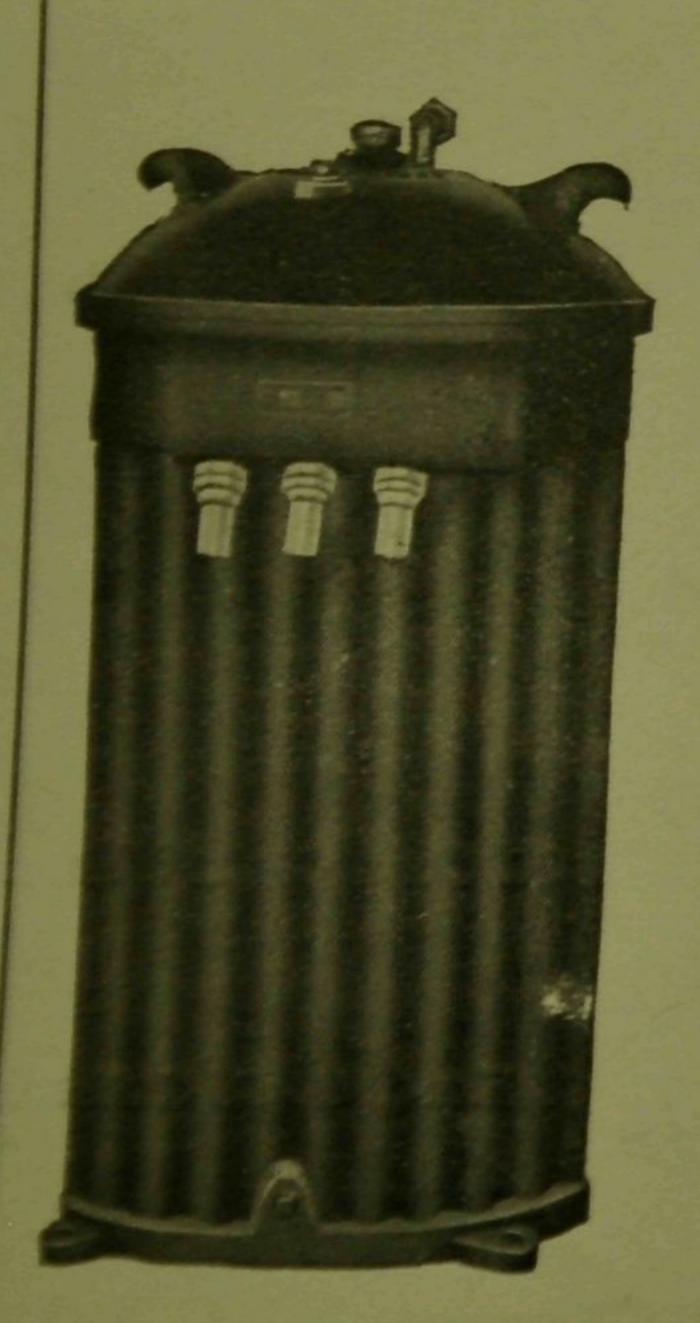
Moloney



Transformers are acknowlto be a stand-



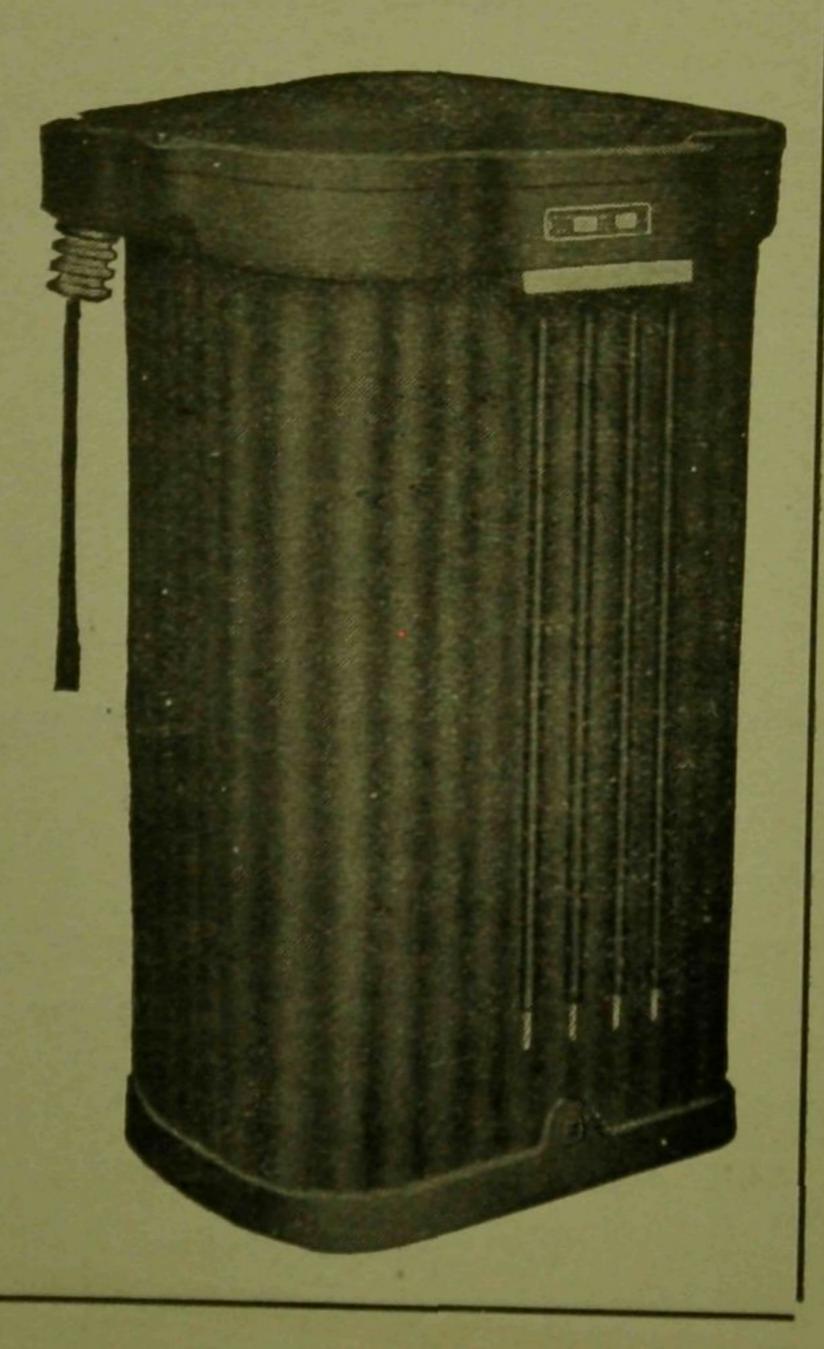
"A Transformer to Satisfactorily Meet Every Need or Purpose"



ELECTRIC

St. Louis, Mo.

Windsor, Ont.



Program—Continued

SECTION F

17. The Cutter Elec'l & Mfg. Co.

H. N. Felton, E. M. Reschetz

18. The Swartz Electric Shop

American Heating Appliances, Bryant and Morse Lamps

Representative

19. Alexander Hamilton Institute

Representative

Edison Lamp Works Lighting Specialties

21. General Elec. Co.; Urbana Light, Heat, and Power Co. Heating Appliances, etcetera

H. Reicheldorfer

SECTION G

22. Chicago Fuse Co. Fuse Boards

Representative

Chelten Electric Co.

Electric Switch Controls

Line Material Co.

High Voltage Specialties

O. S. Imes

Delta-Star Co.

Model Transmission Line Tower

J. E. Zollinger

26. Schweitzer and Conrad Co.

High Voltage Fuses

Have That Picture Framed Now!

In a Sterling Silver, German Silver, Platinoid, Ivoriod, Hand Carved Wood or Made Up From the Best Line of Moulding in the Twin Cities.

Everything Photographic

STRAUCH PHOTO-GRAFT HOUSE

"The Gift Shop"

Wright Street, Opposite President's House

The Princess

Urbana's new Cinema Theatre.

MATINEE DAILY 2-5.

EVENING 7-10:30

The only moving picture house in the Twin Cities that shows a first-run film. On Thursdays, Shubert and Brady Stage Plays are featured.

Music by Princess Orchestra.

Program—Continued

SECTION H

27. Lincoln Electric Co.

Electric Storage Battery Charging Set Representative and R. D. Stitt

28. Woods Electric

Electric Vehicles

C. B. Wiggins, Distrib'r.

29. Effect of Various Illuminants..

A. D. Donnell, B. M. Culmer

30. The Co-Op

Hot-Point Electric Appliances

Representative

SECTION I

31. Reliable Electric Co.

Westinghouse Lamps, Electric Washer

Representative

32. Sangamo Electric Co.
Meters

Representative

33. Lewis Electric Supply Co.

Representative

34. Twin City Electric Co.

Representative

35. G. and W. Electric Specialty Co.
Ignition Specialties

36. Manhattan Electric Supply Co. Electrical Supplies

SECTION J

37. Speaking Arc

J. B. Chartrand, N. D. Jones

38. Cuckoo Bug
From South Sea Islands

A. R. Harris



A Sangamo Meter for Every Condition of Service

Sangamo Electric Co. Springfield, Illinois

Chicago Rochester

Paris London New York Detroit

Program—Continued

39. Wireless Station

H. A. Smith, L. C. Bow, C. H. Sturm

40. Illuminometer

An original method of measuring illumination

Professor Morgan Brooks

41. Mercury Still

R. E. Juergens, O. F. Haas

42. Electric Storage Battery Co.
Hyray-Exide Outfit

W. E. Weiler

SECTION K

43. Commonwealth Edison Co.

Safety First

Representative

44. Zinke Co.

Complete Lighting Outfit

Representative

C. S. Washburn, C. H. Lekberg, F. A. Gunther

15. PANAMA CANAL

A miniature representation of the Panama Canal in operation with electric towing locomotives

R. A. Harvey, H. L. Olesen, R. K. Newton, E. R. Petzing, W. E. Bull, C. A. Wagner, R. Brooks, J. H. Hegner, F. E. Lundgren, R. E. McKeever

46. WIRELESS AUTOMOBILE STARTING

Standing on Insulators the Overland Six will be started every thirty minutes by wireless waves from the E. E. Laboratory

I. W. Fisk, L. W. Faulkner

47. DEATH DEFYING DEMONS

Lighting an arc which requires one hundred and fifty times the current necessary for electrocution W. S. Haggott, R. L. Hermann

AFTER THE SHOW

GO TO

ARCADE CONFECTIONERY

and try one of "Jimmie's" refreshing drinks

THEY WILL DELIGHTFULLY SURPRISE YOU

Try Our Line of SHAVES AND HAIR CUTS

ARCADE BARBER SHOP

The ALAMO

"The Home of Good Things to Eat"

Noonday Lunch, 25c Special Evening Dinner, 35c

Short Orders at All Hours

Open 6:30 A.M. to 12 P.M.

BRADLEY ARCADE

I. D. STUART, Prop.

EVERYTHING ELECTRIC

Electric Vibrator, Electric Hair Singe, Electric Dryer, and a Live Wire to Operate each Chair

SEE

GASTON Y.M.C.A. BARBER SHOP

5 Chairs—All Barbers

COR. WRIGHT AND JOHN ST.

Y,M.C.A. BLDG.

Program—Continued

48. ELECTRIC CAFE

Elaborate Menu Music and Cabaret 40 Tables, Excellent Service W. C. Deiss, Mgr.
A. J. Clarkson, Assts.
Q. N. Saperston
K. B. Humphrey

19. ELECTRIC KITCHEN

Demonstrating cooking by Electricity for a large Cafe Chef, L. D. Buck, Caterer and Proprietor of Students Crumb Shelf

50. LOUD SPEAKING TELEPHONE

Winkler & Reichman Co.

Observe the Origin of the Mysterious Voice which you heard along the way

J. L. Simonich

ELECTRICAL LABORATORY

51. Electrical Laboratory Shop

52. Cooper Hewitt Electric Co.

J. E. Kipp

53. Silhouette, the newest fad in photography
Strauch Photo-craft Shop

54. High Permeability Alloys. Samples of very pure metals produced in electric furnace

T. D. Yensen

55. Electrolytic Current Generator. . 1000 amp., 6 v.

56. Lighting Lamps and Fusing Wires, using human body as a conductor

L. W. Faulkner

57. Wireless Telephone

S. J. Crooker

58. Pulson Arc

L. W. Faulkner

59. Photographic Department Exhibit J. M. Ketch

60. Storage Battery Room and Rectifier. 240 Ampere Hour Capacity

H. O. Frey

61. Electric Furnaces and Vacuum Pumps.

Note the high temperature obtainable

J. H. Belt

62. Pyrene Company of Illinois

Watch the extinguishing of an electric arc with pyrene

G. L. Kyle and R. A. Samuelson

It Stands First

The Champaign Paily Gazette

It leads in news.

It leads in advertising.

It leads editorially.

Therefore it is the paper you should have in your home to keep in touch with the city, county and world happenings as well as the news of the stores—bargains.

10c by carrier. \$3 by mail.

Theatre Tonight?

You will find the best entertainment at the

NEIL THEATRE

315 N. Neil Street Just south of Beardsley

Where a "UNIVERSALLY" good program made by the UNIVERSAL Film Mfg. Co., is shown.

Program—Continued

3.	Six people talk on four wires.	L. Rossett, A. R. Summers		
4.	Automatic Telephone Demonstration I	3. H. Decker, and C. L. Pfeiffer		
5.	Eureka Vacuum Cleaner Co. Complete exhibit of vacuum cleaners	L. Turner		
6.	Royal and Corona Typewriters. Letter Shop During the exhibition the "Show News" will be printed here			
6a.	American Multigraph Sales Co. Latest Electrical Driven Multigraph	Representative		
7.	Locomotive Driving-wheel Balance Mach	ine E. G. Young		
8.	Mono rail	R. C. Kane, L. D. Smiley		
9.	Thomas G. Grier Co. Bras-co-lite Fixtures and Circuit Break	L. C. Heckler		
0.	Transformation of Light into Electricity	A. M. Eleazarian		
1.	Electrical Measuring Instruments			
	Instruments of various descriptions fur ment manufacturing companies	rnished by the prominent instru- D. G. Evans, H. R. Richardson		
2.	Integrating Meter Exhibit	E. D. Bell		
3.	Human Resistance and E. M. F.	Tro forms determined		
	Have your resistance and electromoti	H. E. Dralle, C. S. Cierpik		
1	Geissler Tubes			
		O. A. Randolph, E. H. Warner		
	Braun Tube	C. S. Brese		
6.	The Wonder Tube The longest light in the University	C. M. Bretlinger		
7	Betz Static Machine	S. J. Lurie		
	Quartz Lamp	Cooper Hewitt Electrical Co.		
	High Voltage Transformer and Switchboard. 100 kilowatts, 200,000 volts.			
	Trigit voitage transformer and owntendo	W. A. Gatward		
30.	Breakdown Test of Insulators	C. W. Bade		
		Gumm, F. A. Brooks, H. L. Olesen		
32.	Switchboard			
	The power for the show is controlled by this switchboard			
33.	3. 45-Kw. Synchronous Motor-Generator Set.			
34.	440 volts A. C. converted into 110-220 Lifting Magnets	D. C. E. A. James, T. K. White		
35.	Bucking-Bronco	E. E. Warner, L. Church		
36.	Belt Loss Measurement Apparatus			
	Specially constructed machines designed by members of the Electrical			

Department

P. J. Nilsen and C. R. Moore

Wiring

Fixtures

Repairs

Reliable Electric Company

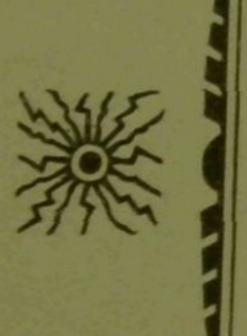
Electrical Contractors

See the Electric Washer at the Show

URBANA, ILL. 218 W. Main St. Stephens Block

Phones: Auto 4447, Bell 502

THE





Champaign's High-Grade Amusement Place

Home of the Pipe Organ, the Paramount Pictures and the best in the Photo Play

Gaby Deslys, Dustin Farnum, Wm. Crane, Fritzi Schiff, John Barrymore, Margueritte Clark, and scores of others in their greatest of successes.

Program—Continued

ELECTRICAL FREAKS

87. Frying Eggs on Ice L. J. Rust 88. The Mysterious Pin. Ring it. L. R. Grey

89. Ball Suspended in Air A. J. Schoch Figure it out.

90. Diving Ducks A. G. Steinmeyer 91. Revolving Balls A. H. Lenz Defying all laws of gravity

92. WIRELESS AUTOMOBILE STARTING STATION

Electric Cannon A 42 cm. gun captured from the Allies

E. A. Reid

HIGH VOLTAGE-HIGH FREQUENCY DISPLAYS

95. 10 ft. Tesla Coil, 2,500,000 volts R. E. Hart and L. Jarmulsky J. C. Henderson, E. McEvers 96. Electric Chair

97. Thordarson Flexible Transformer L. H. Hutchinson

Electric Block Signal Illinois Traction System

103. Electric Appliance Co.

G. E. Potter

H. Parrilli 99. Aeroplane G. H. Lindsey and C. Anderson 100. Oscillograph

101. Frequencies of Human Voice T. Kawamoto

102. Novelty Electroplating Gold, Silver, and Copper Plating

G. W. Ball and P. Wallace

C. R. Horrell, Repr. H. E. Barden

A. W. Regulator operating on various candle-power series lamps

104. Moloney Electric Co. 2200-220-110 5 Kw. Transformer

O. E. Sinclair 105. Construction of Transformer

106. Electric Welding by Condenser Discharge C. T. Grant

107. Two G.-E. Motor-Generator Sets Used for conversion of power for Show.

108. University Electrical Test Car This car is used by the University for electrical railway test purposes Prof. A. M. Buck and C. J. Rhea

THE CALDWELL COMPANY

Creators of Electrical Satisfaction

Caldwell Building

CHAMPAIGN, ILLINOIS

Booth at Right of Door

All-Star Attractions

> Every Friday

Quality Program Every Day

Star Features

Every

Wednesday

COMING ATTRACTIONS

FRIDAY, APRIL 9

Mrs. Thomas Whiffen

The Grand Old Lady of the American
Stage, Supported by BEULAH
The Man Who POYNTER in

Hearts and Flowers

A Thrilling Drama of Love, Devotion | From the Book by Richard Hard-and Sacrifice. | In Fve Parts.

FRIDAY, APRIL 16

CARLYLE BLACKWELL

Could Not Lose

Has this Program of Exhibits Proven of Interest to You?

If so tell your friends about it and ask them to attend the show.

The Electrical Corn Popper operated at this show is the property of the STUDENT'S CRUMB SHELF, L.D. Buck, Prop.

But almost every illustration on the campus is made by

24 North Walnut Street Auto 2162 Bell 411

G.R.GRUBB&CO. ENGRAVERS

CHAMPAIGN, ILL.

The Pioneer Photoplay House

Change of Program Daily. Matinee 2 to 5 p.m. Evening performance 7 to 11 p.m.

ADMISSION 10 CENTS

MANAGEMENT UNDER NEW

53 Main St. Champaign

1915 Line Golf Clubs

are now in, call and examine them

Green Street Pharmacy

B. E. SPALDING, Prop.

6th and Green Streets

COLONIAL THEATRE

NORTH MARKET ST. Matinee, Day 2-5

URBANA, Night 7-10:30

FEATURE

MOTION PICTURES

PROGRAM CHANGED DAILY

Go where all the Goes go—where things go with a go—to the COLONIAL THEATRE. Go for the fun of it

ORCHESTRA

ADMISSION 5-10

YOUR PRINTING BUSINESS
SOLICITED

THE COURIER COMPANY
THE ACCOMMODATING

PRINT SHOP

WHERE ALL STUDENTS ARE WELCOME OPPOSITE POST OFFICE

URBANA

H. I. CARPENTER

Piano Tuner

Office 208 Co-Op. Building

Green and Wright Streets

Champaign, Ill.

Both Phones

Established 1883

Howard Studio

PORTRAITS DE LUXE

EXPRESSION, Quality and Individuality.
A PORTRAIT, not a CARICATURE.
We have ARTISTS, not CARTOONISTS. Something really worth while. We are just now offering one of the NEW ideas in portraits—something you do not find in the average studio. We cordially invite the public to call and inspect our work.

HOWARD STIIDIO

Auto Phone 4411

115 S. Race St., Urbana, Ill.

TWIN CITY ELECTRIC CO.

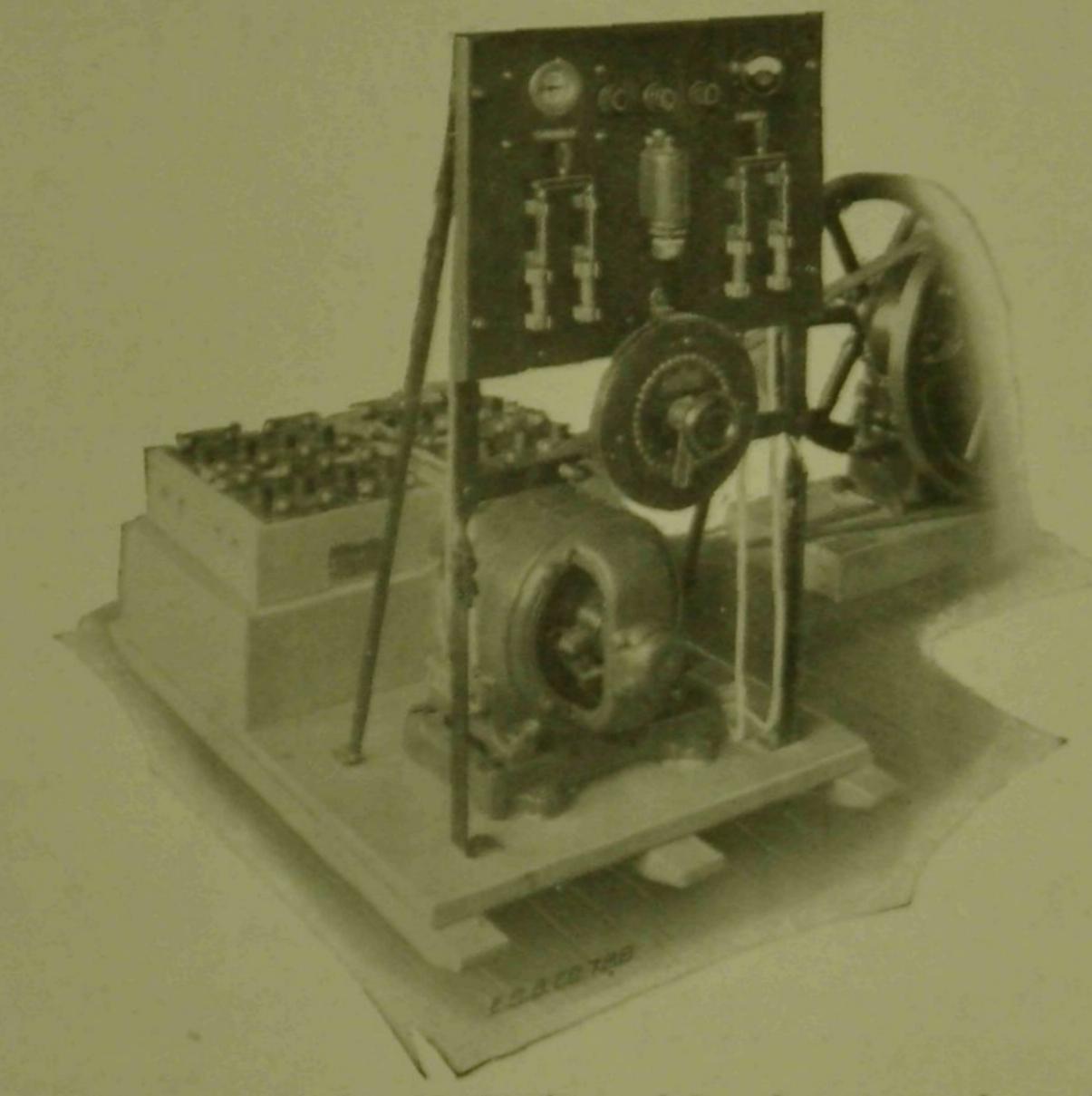
Champaign and Urbana's Oldest Electric Company

Agents for The O. K. Electric Washer and Reed's Fireproof Incubators and Cookers.

Both Phones

9 Taylor St., Champaign, Ill.

Electric Lights for Everybody



Hyray=Exide? Unit with dynamo in place and connected to gas engine, making a complete electric plant.

Every farm, suburban home, store, hotel, etc., not situated near a public Central Station can now have its own electric lighting plant, which will give perfect service and which can be installed and operated at a small expense. The new

"Itgrag=Exide" Electric Plant Units

These Units consist of a "Hyray=Exide" Battery assembled in rubber jars (charged) and a switchboard-all mounted on one skid as shown in the illustration above. The switchboard is made to fold down over the battery and the entire Unit is shipped in one box, which can be easily handled.

All that is necessary is to mount a standard dynamo on the skid in the space provided for it, connect up a couple of wires, belt a gas engine to the dynamo and the electric lighting plant is complete and ready for use. These low voltage plant-units are of the latest and best design and represent the results of years of experience by the oldest and largest battery maker in the country.

Our nearest office will be glad to send you on request, copies of our catalogues giving you full information on these electric lighting and power units.

PHILADELPHIA, PA.

CHICAGO OFFICE-MARQUETTE BLDG.

Philadelphia New York Pittsburgh

Boston St. Louis Cleveland

Atlanta Rochester Denver Washington Detroit San Francisco

Seattle Toronto

Los Angeles

For Quality—For Completeness of Selection

For Long Wearing Qualities For All 'round Satisfaction

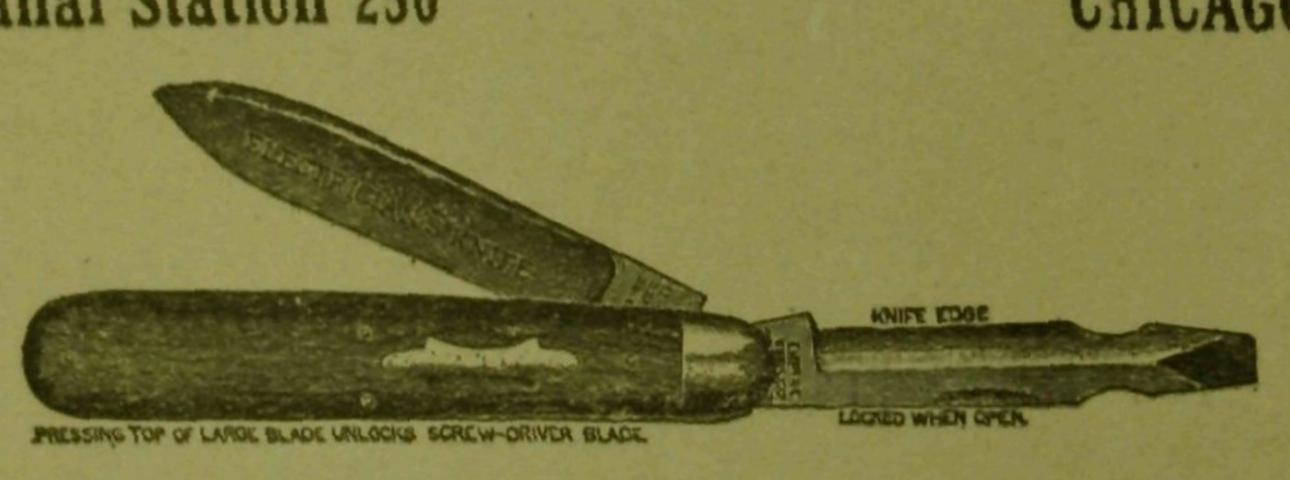
Klein's Electrician's Tools

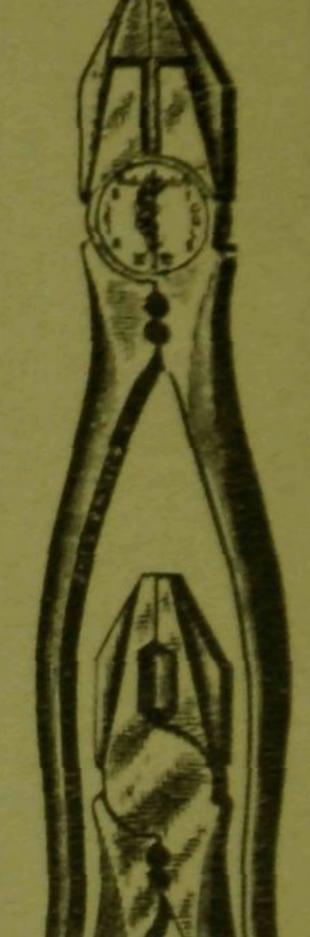
DEALERS: - Write for our latest Catalog and Discount Sheet.

MATHIAS KLEIN & SUNS, Mirs.

Canal Station 250

CHICAGO





THE Beautiful Poster for this Electrical Show was lithographed

by us. We produce on paper or cardboard anything that can be made by lithographic process. Our work includes all branches of Color and Commercial Lithography.

Edwards & Deutsch Lithographing Company CHICAGO